

इंटरनेट

मानक

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Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 6455 (1972): Single Row Radial Ball Bearings [PGD 13: Bearing]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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**AMENDMENT NO. 1 SEPTEMBER 1999
TO
IS 6455 : 1972 SPECIFICATION FOR SINGLE ROW
RADIAL BALL BEARINGS**

(*Page 1, clause 1*) — Insert the following new clause after 1 and renumber the subsequent clauses:

'2 REFERENCES

The following Indian Standards contain provisions which through reference in this text, constitute provision of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

<i>IS/ISO No.</i>	<i>Title</i>
IS 2398 : 1967	Identification code for rolling bearings
IS 2399 : 1988/ ISO 5593 : 1984	Rolling bearings — Vocabulary (<i>first revision</i>)
IS 5669 : 1987/ ISO 15 : 1981	General plan of boundary dimensions for radial rolling bearings (<i>first revision</i>)
IS 5692 : 1988	Tolerance for radial rolling bearings (<i>first revision</i>)
IS 5935 : 1992	Radial internal clearance in unloaded radial rolling bearings (<i>first revision</i>)
IS 6453 : 1984	Technical supply conditions for rolling bearings (<i>first revision</i>)

[*Page 1, clause 2 (renumbered 3)*] — Substitute 'IS 2399' for 'IS 2399 : 1964 Glossary of terms relating to rolling bearings'.

[*Page 1, clause 3.1 (renumbered 4.1)*] — Substitute 'IS 2398' for 'IS 2398 : 1967 Identification code for rolling bearings'.

[*Page 1, clause 4 (renumbered 5)*] — Substitute 'IS 2398' for 'IS 2398 : 1967'.

Amend No. 1 to IS 6453 : 1972

[*Page 1, clause 5.1 (renumbered 6.1)*] — Substitute 'IS 5669' for 'IS 5669 : 1970 General plan of boundary dimensions for radial rolling bearings'.

[*Page 1, clause 5.2 (renumbered 6.2)*] — Substitute 'IS 5692' for 'IS 5692 : 1970 Tolerance for radial rolling bearings'.

[*Page 1, clause 5.3 (renumbered 6.3)*] — Substitute 'IS 5935' for 'IS 5935 : 1970 Radial internal clearances in unloaded radial rolling bearings'.

[*Page 1, clause 6 (renumbered 7)*] — Substitute 'IS 6453' for 'IS 6453 : 1972 Technical supply conditions for rolling bearings'.

(LMD 12)

Indian Standard
**SPECIFICATION FOR
SINGLE ROW RADIAL BALL BEARINGS**

- 1. Scope** — Requirements for single row radial ball bearings.
- 2. Terminology** — As given in IS : 2399-1964 'Glossary of terms relating to rolling bearings'.
- 3. Types**
 - a) Radial contact;
 - b) Angular contact; and
 - c) Radial contact, spherical outside surface.
- 3.1** Variation in the above types shall conform to IS : 2398-1967 'Identification code for rolling bearings'.
- 4. Symbols** — Conforming to IS : 2398-1967.
- 5. Dimensions and Tolerances**
 - 5.1 Boundary Dimensions** — Dimension series for single row radial ball bearings shall conform to the series 00, 02, 03, 04, 18, 19 and 10 of IS : 5669-1970 'General plan of boundary dimensions for radial rolling bearings'.
 - 5.2 Tolerances** — Tolerances on the boundary dimensions shall conform to IS : 5692-1970 'Tolerances for radial rolling bearings'.
 - 5.3 Radial Clearances** — Shall conform to IS : 5935-1970 'Radial internal clearances in unloaded radial rolling bearings'.
- 6. General Requirements** — Other requirements for the bearings shall conform to IS : 6453-1972 'Technical supply conditions for rolling bearings'.
- 7. Designation** — Typical examples:

SI No.	Order of Designating Symbols Description	Bore Dia of Bearing	Type*	Width and Outside Dia Series (Dimensions Series)	Supplementary Code (if Required for any Modification of Design)†	Number of This Standard	Tolerance Class‡	Radial Clearance Group§	Complete Designation
		000	AAA	OO	AAAA	IS : 6455	PO	CO	
i)	Single row radial ball bearing 50 mm bore dia; non-filling slot assembly; dimension series 02; tolerance class normal; radial clearance group normal	50	BC	02	—	IS : 6455	—	—	50 BC 02 IS : 6455
ii)	Same bearing as SI No. (i) but with tolerance class 6	50	BC	02	—	IS : 6455	P6	—	50 BC 02 IS : 6455 P6
iii)	Same bearing as SI No. (i) but with radial clearance group 2	50	BC	02	—	IS : 6455	—	C2	50 BC 02 IS : 6455 C2
iv)	Same bearing as SI No. (i) but with tolerance class 6 and radial clearance group 2	50	BC	02	—	IS : 6455	P6	C2	50 BC 01 IS : 6455 P6 C2
v)	Bearing of SI No. (iv) but with any type of cage, one shield permanently fastened and a pair of ball bearings modified for duplex mounting face-to-face	50	BC	02	XPU	IS : 6455	P6	C2	50 BC 02 XPU IS : 6455 P6

*In accordance with 3.3.1 of IS : 2398-1967.

†In accordance with 3.4 of IS : 2398-1967.

‡In accordance with 5.2.

§In accordance with 5.3.

Adopted 3 February 1972

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